CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/KRIDL/CEMENT/2013-14

Date: 04.09.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of RCC Drain at Road near Silicon School of MHR Layout at Sidedahalli Village in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/SAND/2013-14 : 04.09.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of RCC Drain at Road near Silicon School of MHR Layout at Sidedahalli Village in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013

Date of Testing : 04.09.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	227	11.35	16.25	83.8	75-100
1.18	518	25.90	42.15	57.9	55-90
600 Micron	422	21.10	63.25	36.8	35-59
300 Micron	486	24.30	87.55	12.5	8-30
150 Micron	203	10.15	97.70	2.3	0-10

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Job No.: CTCE/BBMP/W.No.14/KRIDL/AGG/2013-14 : 04.09.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Construction of RCC Drain at Road near Silicon School of MHR Layout at Sidedahalli Village in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013

Date of Testing : 04.09.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.90	3.90	96.10	95-100
20	15470	60.67	64.57	35.43	30-70
10	5985	23.47	88.04	11.96	10-35
4.75	2630	10.31	98.35	1.65	0-5

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Job No.: CTCE/BBMP/W.No.14/KRIDL/STEEL/2013-14 04.09.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Construction of RCC Drain at Road near Silicon School of MHR Layout at Sidedahalli Village in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013
Date of Test	:	04.09.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	512	550	13.05	O.K	O.K
2	10	0.59	517	554	13.40	O.K	O.K

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Job No.: CTCE/BBMP/W.No.14/KRIDL/CUBE/2013-14 04.10.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Construction of RCC Drain at Road near Silicon School of MHR Layout at Sidedahalli Village in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2013-14 Dated: 02.09.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2013	04.10.2013	8.365	495.7	22.03
2	06.09.2013	04.10.2013	8.257	489.2	21.74
3	06.09.2013	04.10.2013	8.419	506.4	22.51

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